

SOUTHWEST RESEARCH INSTITUTE

6220 CULEBRA ROAD • POST OFFICE DRAWER 28510 • SAN ANTONIO, TEXAS, USA 78228-0510 • (210) 684-5111 • TELEX 244846

AUTOMATION AND DATA SYSTEMS DIVISION
FAX: (210) 522-5499

July 11, 1996

Ms. Michelle Shell
Building 4610 - EO37
NASA - Marshall Space Flight Center
Marshall Space Flight Center, AL 35812

Subject: Southwest Research Institute (SwRI) Project No. 10-7051;
"Development of Enhanced HOSC Command Subsystem Prototype";
Final Status Report for the Five-week Period from May 11, 1996 through
June 14, 1996

Reference: NASA Contract No. NAS8-40441

Dear Ms. Shell:

This final status report describes the project activities performed during the period from May 11, 1996 through June 14, 1996. This status report will serve as the final report for the project. During the reporting period, SwRI addressed a few minor issues identified with the Command Update Form Generation (CUFG) program after SwRI installed and unit tested the software at MSFC. The updates were made and the files were returned to the MSFC configuration management system. SwRI was unable to perform testing because it is not possible to remotely build and execute the application. The feedback we have received is that the modifications correctly addressed the issues.

SwRI and MSFC have each signed the code hand over checklist for the CUFG program. This indicates completion and acceptance of the CUFG program. SwRI is updating a design document which will be delivered when completed.

This project was initiated in February 1995. In summary, the major activities completed on this project include the following:

- Several updates were made to the Display Services prototype to address a final set of user issues.
- The Display Services prototype was updated to use the XRT/Graph widget set instead of the DynaGraphX widget set. A report comparing performance was also generated.
- Several Common User Interface (CUI) components were developed, tested, and delivered to MSFC.
- The CUFG program was updated to remove unnecessary Display Services code, adhere to MSFC naming standards, and follow the new design.



SAN ANTONIO, TEXAS

HOUSTON, TEXAS • DETROIT, MICHIGAN • WASHINGTON, DC

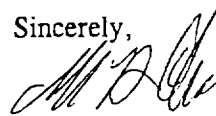
Ms. Michelle Shell
Project No. 10-7051
July 11, 1996
Page 2

- A new design was generated for the CUFG program to reflect use of MSFC CUI components, system interfaces, and database access functions.
- A unit test plan was developed and executed on SwRI Sun and SGI workstations. This unit test plan was delivered to MSFC.
- SwRI travelled to MSFC to install the CUFG program, execute the unit test, and deliver the source code.

SwRI appreciates the opportunity to work with MSFC on this and previous contracts. SwRI hopes our effort has contributed to the success of the Enhanced HOSC development in particular and MSFC in general. We look forward to identifying future opportunities to continue to work together.

If you have any questions or comments, please feel free to contact me at (210) 522-3437 or Mr. Glenn Regner at (210) 522-4969.

Sincerely,



Mark D. Collier
Manager
Modeling and Simulation Section
Software Engineering Department

Approved:



Susan B. Crumrine
Director
Software Engineering Department

MDC/lmc
Enclosure
(p:\05-7051\status\96-06-07.rpt)

cc: Susan Crumrine, SwRI
Glenn Regner, SwRI
Keith Cornett (MSFC)
Pat Molloy (MSFC)
Andrew Keys (MSFC)
GP26C (MSFC)
CN22D (MSFC) - 3 copies
LA10/New Technology Representative (MSFC)
EM11-03 (MSFC)
NASA Center for AeroSpace Information (MSFC) - 2 copies
DLA (MSFC)

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE 21 June 1996		3. REPORT TYPE AND DATES COVERED 5-wk Status report, 11 May 96 - 14 Jun 96	
4. TITLE AND SUBTITLE Status Report for Development of Enhanced HOSC Command Subsystem Prototype				5. FUNDING NUMBERS C NAS8-40441	
6. AUTHOR(S) Mark D. Collier				PR 10-7051	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Mark D. Collier Southwest Research Institute P.O. Drawer 28510 6220 Culebra Road San Antonio, TX 78228-0510				8. PERFORMING ORGANIZATION REPORT NUMBER 17 of 17	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) Ms. Michelle Shell Building 4610-E037 NASA- Marshall Space Flight Center Marshall Space Flight Center, AL 35812				10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES					
12a. DISTRIBUTION/AVAILABILITY STATEMENT				12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) This status report describes the activities performed during the five-week period from 11 May 96 - 14 June 96 for the "Development of the Enhanced HOSC Command Subsystem Prototype."					
14. SUBJECT TERMS Command Update Form Generation (CUFG) prototype				15. NUMBER OF PAGES 3	
				16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED	19. SECURITY CLASSIFICATION OF ABSTRACT UNCLASSIFIED	20. LIMITATION OF ABSTRACT SAR		